## We claim:

- 1. An apparatus for preparing films suitable for encapsulation from a solid filmforming material comprising:
  - a) at least one casting drum;
  - b) means for melting said film-forming material on demand;
  - c) pump means; and
  - d) an extrusion device.
- 2. An apparatus according to claim 1 wherein said film-forming material has an aqueous component.
- 3. An apparatus according to claim 2 wherein said film-forming material comprises at least one component selected from the group consisting of starch, gelatin, carrageenans, gums and synthetic materials.
- 4. An apparatus according to claim 3 wherein said film-forming material comprises iota-carrageenan and modified starch; water; a plasticizer; and a buffer.
- 5. An apparatus according to claim 3 wherein said film-forming material comprises gelatin, water and plasticizers.
- 6. An apparatus according to claim 1 wherein said means for melting said filmforming material comprises a melt grid.
- 7. An apparatus according to claim 6 wherein said melt grid is above the solid film-forming material.
- 8. An apparatus according to claim 6 wherein said melt grid is below said solid film-forming material.

- 9. An apparatus according to claim 1 wherein said pump means is a positive displacement pump.
- 10. An apparatus according to claim 9 wherein said positive displacement pump is selected from the group consisting of gear pumps, lobe pumps, sine pumps, worm pumps, and archimedes screws.
- 11. An apparatus according to claim 1 additionally comprising a reservoir means disposed between said means to melt said polymer and said extrusion device.
- 12. An apparatus according to claim 1 wherein said extrusion device comprises a chamber and an extrusion slot.
- 13. An apparatus according to claim 12 wherein said extrusion device is a coat hanger die.
- 14. An apparatus according to claim 1 additionally comprising a manifold disposed between said reservoir and said extrusion device.
- 15. An apparatus for applying a polymer to a substrate comprising:
  - a) means to melt said polymer on demand;
  - b) pump means to transport the molten polymer to an extrusion device;
- c) reservoir means to dispose between said means to melt said solid polymer; and
  - d) at least one casting drum.
- 16. The apparatus according to claim 1 wherein said extrusion device comprises a chamber and an extrusion slot.

- 17. The apparatus according to claim 16 wherein said extrusion device is a coat hanger die.
- 18. The apparatus according to claim 15 additionally comprising a distribution manifold disposed between said reservoir and said extrusion device.
- 19. A process for the preparation of films suitable for encapsulation comprising the steps of:
  - a) preparing a liquid gel mass;
  - b) solidifying said liquid gel mass;
- c) melting only a portion of said solid gel mass as required and pumping the gel mass to an extrusion device; and
  - d) forcing the liquid gel mass through said extrusion device.
- 20. An apparatus for preparing soft capsules, the apparatus comprising at least one casting drum and an extrusion device wherein said casting drum has deposited upon it by said extrusion device, a ribbon of material useful for encapsulation; and wherein said extrusion device is tilted from 2 to 10° from perpendicular and away from the direction of flow from the extrusion device.
- 21. The apparatus according to claim 20 wherein the tilt of said extrusion device is about 5°.